

U.S. Application Serial No.: 10/636,308
Amendment dated August 3, 2005
In response to Office Action dated May 3, 2005

REMARKS

Claims 1 to 38 are in this application.

Claims 1, 8-11, and 35-38 are allowed.

Claims 2-7 and 12-34 are objected to but would be allowable if the objections are overcome.

Applicant has amended claims 2-3, 12-13, 22-23, 28, and 34.

Claims 1 to 38 are currently pending in this application.

Applicant gratefully acknowledges the allowance of claims 1, 8-11 and 35-38 and the allowability of claims 2-7 and 12-34 if the objections are overcome.

The specification and the "Abstract of the Disclosure" have been amended to delete "halide" from "alkali halide" when the term "halide" refers to an alkali doped phosphor and when it refers to the composition of the phosphor itself.

The specification has been further amended to conform the specification to the amendments in the claims, by defining that the process steps comprise:

"reacting a dilute solution comprising a source of alkali, a source of lanthanum, a source of manganese and a source of aluminum, in an acid medium to form a gel;

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converting the gel into a gel powder by removing excess water; and
thermally decomposing the powder at specified temperatures to produce the
phosphor."

The specification has been amended still further to provide support for claims 27 and 28 in the specification by inserting into the paragraph on page 10, line 18-24, the following:

"According to the method of the present invention, the gel can be spray dried to form gel powder and the gel powder can be crushed to form a powder prior to thermal decomposition. Alternatively, the gel can be sprayed ultrasonically and dried to form gel powder and the gel powder can be crushed to form a powder prior to thermal decomposition."

The specification has been additionally amended to conform the description of Fig. 3 to the amended Fig. 3 and to correct typographical errors and minor informalities.

Applicant has amended claims 2-3, 12-13, 22-23, 28, and 34. Accordingly, claims 2-7 and 12-34, which had been objected to, are now allowable.

In view of the foregoing, the present amendments are believed to place the claims in condition for allowance.

Accordingly, Applicant respectfully requests reconsideration of the present application and allowance of the currently pending claims, namely claims 1-38.

An early issuance of a Notice of Allowability is earnestly solicited.

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Respectfully submitted,

Date: August 3, 2005

By:

V. Alexanian

Vazken Alexanian
Agent for Applicant(s)
Registration No. 37,270
Ohlandt, Greeley, Ruggiero
& Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, CT 06901-2682
Tel: (203) 327-4500
Fax: (203) 327-6401

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REPLACEMENT SHEET

Fig. 3

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Amendment to the Drawings:

Please replace FIG. 3 in this application with the enclosed Replacement Sheet for FIG. 3, which has only a single micrograph of the phosphor according to the present invention.

The two micrographs shown in FIG. 3 before amendment are for the same phosphor material but at different magnifications: the lower magnification on the left and the higher magnification on the right.

The corrected FIG. 3 shows only the phosphor on the right, which is the micrograph of the phosphor at the higher magnification.